

DEPARTMENT OF TRANSPORTATION RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION

WASHINGTON, D.C. 20590

32692

49 CFR Parts 171, 173, 174, 177

[Docket No. HM-163-D; Amdt. Nos. 171-54; 173-138; 174-38; 177-49]

Hazardous Materials Regulations; Withdrawal of Certain Bureau of Explosives Delegations of Authority

AGENCY: Materials Transportation Bureau, Research and Special Programs Administration, DOT.

ACTION: Final rule.

SUMMARY: The purpose of these amendments to the Department's Hazardous Materials Regulations is to withdraw or cancel the remaining delegations of authority to the Bureau of Explosives (B of E) in Part 173 (except for § 173.34(d) and § 173.303(a)) of 49 CFR. However, the B of E will continue to play a role in the testing of explosives and other hazardous materials for MTB. This action is being taken to conform existing programs with the purposes of the Hazardous Materials Transportation

FECTIVE DATE: May 19, 1980.

FOR FURTHER INFORMATION CONTACT: Darrell L. Raines, Office of Hazardous Materials Regulation, Materials Transportation Bureau, Research and Special Programs Administration, Washington, DC 20590, phone 202–472– 2726.

SUPPLEMENTARY INFORMATION: On November 26, 1979, the Materials Transportation Bureau (MTB) published a Notice of Proposed Rulemaking, Docket HM-163D; Notice 79-15 (44 FR 67476) which proposed these amendments. The background and the basis for incorporating these amendments into the regulations were discussed in that notice. Interested persons were invited to give their views prior to the closing date of January 15, 1980.

The MTB received eight comments on Notice 79–15.

The main objections received were in reference to § 171.20 and § 173.86. The objections were (1) no time limitation on the approval response from the Associate Director for OE after an application for approval has been submitted, (2) no mention of an

ellate review in the event that the ociate Director for OE denies an proval, and (3) the economic hardship and excessive time delay that would occur if the present authority now delegated to the Department of Defense and the Department of Energy was withdrawn.

In response to the first objection, the MTB has and will continue to rely on the expertise and recommendations of the B of E. Therefore, we do not visualize the need to incorporate a time period for the Associate Director for OE to respond to an approval request at this time. All applications received for approval will be processed as expeditiously as possible. If actual practice dictates the need for a time limit at a later date, the MTB will consider the issuance of a notice of proposed rulemaking for public comment.

In reference to the second objection, § 171.20 has been revised by adding paragraph (c) to allow any applicant to file an appeal with the Director, MTB in the same manner as provided in § 107.121 for an exemption.

The proposed changes in § 173.86 were not intended to disrupt or change the present authority delegated to the Department of Defense and the Department of Energy. Therefore, § 173.86(b) has been revised to require OE approval only on those items examined by the B of E.

Two paragraphs in Part 174 and three paragraphs in Part 177 have been revised and included in this rulemaking to coincide with similar changes made in Part 173. The changes proposed for § 173.34(d) and § 173.303(a) have been withdrawn from this rulemaking and will be republished in a separate notice of proposed rulemaking in the near future. In addition to § 173.34(d) and § 173.303(a) the MTB believes that the only remaining delegation of authority to the B of E in Parts 173, 174, 177 and 178 that has not been changed is § 177.821(e). The MTB will include these three proposed changes in the same notice.

Primary drafters of these amendments are Darrell L. Raines, Exemptions and Regulations Termination Branch, and George W. Tenley, Office of the Chief Counsel, Research and Special Programs Administration.

PART 171—GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS

In consideration of the foregoing, 49 CFR Parts 171, 173, 174, and 177 are amended as follows:

1. Section 171.20 is added to read:

§ 171.20 Submission of Examination Reports.

(a) When it is required in this subchapter that the issuance of an approval by the Associate Director for OE be based on an examination by the

Bureau of Explosives (or any other test facility recognized by MTB), it is the responsibility of the applicant to submit the results of the examination to the Associate Director for OE.

- (b) Applications for approval submitted under paragraph (a) of this section, must be submitted to the Associate Director for Operations and Enforcement, Materials Transportation Bureau, Washington, D.C. 20590.
- (c) Any applicant for an approval aggrieved by an action taken by the Associate Director for OE, under this subpart may file an appeal with the Director, MTB within 30 days of service of notification of a denial.

PART 173—SHIPPERS—GENERAL REQUIREMENTS FOR SHIPMENTS AND PACKAGINGS

2. In § 173.28 paragraph (h)(1) is deleted:

§ 173.28 Reuse of containers.

- (h) * * *
- (1) [Deleted]
- 3. In § 173.31 paragraph (d)(4) Table footnote is revised to read:

§ 173.31 Qualification, maintenance, and use of tank cars.

- (d) * * *
- (4) * * *

¹ Tanks and safety relief devices in hydrocyanic acid service must be retested and inspected by a written procedure filed with and approved by the Associate Director for OE.

4. In § 173.32 paragraph (b)(3) is revised to read:

§ 173.32 Qualification, maintenance, and use of portable tanks.

(b) * * *

(3) Tanks having capacities of between 750 pounds and 1,000 pounds of water shall be considered as portable tank containers for the purposes of this part. In lieu of using safety relief valves on such containers they may be

equipped with fusible plugs only when the container is filled by weight Size, number, and location, as well as character and physical properties of fusible plugs shall be examined by the Bareau of Explosives and approved by the Associate Director for OE. These containers shall be marked "DOT Specification 51S."

5. In § 173,34 paragraphs (c)(3)(i). introductory text of paragraph [g](4)(ii), the introductory text of paragraph (i).

paragraph (i)(4)(i), and the introductory text of paragraph (I) are revised to read?

§ 173.34 Qualification, maintenance and use of cylinders.

(i) Marked service pressure may be changed only upon application to the Associate Director for OE and receipt of Associate Effector for As and receipt of written instructions as to the procedure to be followed. Such a change is not authorized for a cylinder which has failed to pass the precribed periodic hydrostatic retest unless it is reheat treated and requalified in accordance with the requirements of this section.

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- (ii) The permanent expansion shall not be less than 3 percent not more than 10 percent of the total expansion in the hydrostatic retest, in which case the flattening and physical tests are not required. For this alternative method the hydrostatic retest pressure may not exceed 115 percent of the minimum prescribed lest pressure except with specific approval of the Associate Director for OE.
- (i) Repair by welding or brazing of DOT-4 series and DOT-8, welded or brazed cylinders. Repairs on DOT-4 series and DOT-8 series welded or brazed cylinders are authorized to be made by welding or brazing. Such repairs must be made by a manufacturer of these types of DOT cylinders or by a repair fadility approved by the Associate Director for OE and by a process similar to that used in its manufacture and under the following specific requirements: specific requirements:
- (i) Must be done by a manufacturer o these types of DOT cylinders or by a repair facility approved by the Associate Director for OE.

(1) Rebuilding of DOT-4 series and DOT-8, welded or brazed cylinders. Rebuilding of DOT-4 series and DOT-8 series, welded or brazed cylinders is authorized. Such rebuilding must be done by a manufacturer of these types of DOT sylinders or by a repair facility approved by the Associate Director for OE and by a process similar to that used in its original manufacture and under the following specific requirements:

6. In § 173.53 paragraphs (h), (b)(1), and (j) are revised to read

§ 173.53 Definition of Class A explosives.

(h) Type 8. Any solid or liquid compound, mixture or device which is not specifically included in any of the above types, and which under special conditions may be so designated and examined by the Bureau of Explosives and approved by the Associate Director for OE. Example: Shape charges,

commercial. (1) A shaped charge, commercial. consists of a plastic, paper, or other suitable container comprising a charge of not to exceed 8 ounces of a sigh explosive containing no liquid explosive ingredient and with a hollowed out portion (cavity) lined with a raid material. Detonators or other initiating elements may not be assembled in the device unless examined by the Bureau of Explosives and approved by the Associate Director for OB.

(j) Ammunition for cannon with projectiles. Ammunition for camon with explosive projectiles, gas projectiles, smoke projectiles, incendiary projectiles, illuminating projectiles, or shell is fixed ammunition assembled in a unit consisting of the cartridge case containing the propelling charge and primer, and the projectiles or shell, fuzed or unfuzed. Detonating fuzes, tracer fuzes, explosive or ignition devices, or fuze parts with explosives contained therein may not be assembled in ammunition or included in the same outside package unless shipped by or for the Department of Defense (DOD) and in accordance with established practices and procedures specified by DQD

7. In § 173.56 paragraphs [a], [c], and (d) are revised to read:

§ 173.56 Ammunition, projectiles, grenades, bombs, mines, gas mines, and torpedoes.

(a) Detonating fuzes, tracer fuzes, explosive or ignition devices, bouchons. or fuze parts with explosives contained

therein, must not be assembled in explosive pringestiles, grenades, explosive bombs, explosive mines, or explosive torpedoes, or included in the same outside package with them unless shipped by or for the Department of Defense (DOD) and in accordance with established practices and procedure; appointed by DOD. specified by DOD.

(c) The following explosives may be shipped without heing boxed when shipped by he for the Department of Defense (DOD) and in accordance with established practices and procedures specified by DOD. A Line In the

(1) Explosive projectiles, explosive:

- (1) Explosive projectiles, explosive torpodoes, explosive mines, or explosive bombs, exceeding 90 pounds in weight, and explosive projectiles of not less than 4½ inches when palletized.

 (2) Explosive projectiles less than 4½ inches when palletized.

 (d) Cas projectiles, smake projectiles, incendiary projectiles, illuminating projectiles, gas bombs, smake bombs, incendiary projectiles, lituminating projectiles, gas bombs, smake bombs, incendiary points, gas greanes, sacket grenades, latendary greaters, and gas mines, explosive, contaming a barel of change must be packet and property secured in strong wonders are pursue to bouchons or ignation elements may in be assembled in these articles of included in the same packets with item unless shipped by or for the Department of Defense (ISCE) and in a contained with established greaters, and procedures specified by ISCE. procedures specified by DCD
- 8. In § 173.57 paragreph (a) is payings. to read: 📑 🚉 i 💥 i 💥 i

§ 173.57 Ripolet ammunitions

- (a) Rocket ammunition with explosive projectiles, gas projectiles unoke projectiles, incommunition with explosive projectiles, incommunities unoke projectiles, incommunity projectiles, incommunity projectiles, incommunity packed and properly secured in strong wooden, metal, preformed fiber glass resin impregnated container, or other packagings or approved military specifications which comply with § 173.7(a).
- 9. In § 173.85 the introductory text of paragraph (h) is revised to react:

§ 173.65 High explosives with no liquid explosive ingredient nor any chlorate;

(h) Shaped charges, commercial, having exposed lined conical cavities must have such cavities effectively filled. Those having conical cavities are covered shall be paired together with the cavities facing each other and with one or more pairs in a fiber tube, or irranged that the content cavities of the shape i granges it the ends of the column lates keep distributes of the tube. The shaped charges in the fiber tubes must be appear with no excess space and the piper tubes containing the shaped granges must be packed anugly with no excess space as the outside contained. Other steepads of partraging for decrease of which shaped charges are a composite part new, be simplosed when examined by the Daiseau of Explosives and approved by the Associate Director for CR. Shaped charges commercial, must be packed in specification containers as follows:

g**raphs** (a)(2) and

Class A explosives sa N explosives the same outside A.B. pe C. Period A.B. pe C. Period A.B. pe C. Period Peri

6 paragraph (b) is revised

as follows: § 173.86 New exposives desnitions; approvat and instriction:

icar offera new new constitute unless is new the bureou of

has Seen pleasured by the Infraou of Explassive Survey Street and approved by the Associate Director for DE or examined Europes and approved by one of the Inflational Infrastructures.

(i) U.S. Department of Energy (DOE) for new explosives in Energy (DOE) for new explosives in the Energy (DOE) what leases in addresses with the Explosives Hazardinas with the Explosives Hazardinas Classification procedures contained in DOT TB 700-2 (May 19, 1967), or SIU.S. Army Malerial Development ellipse address Command (DRCSF), and SEA Osti), or HQUSAF (IGD)/SEV/for new explosives made by, or under the direction or supervision of the

under the direction or supervision of the Department of Defense when tested in

accordance with Explosives Hazard Classification procedures contained in DOD TB 700-2 (May 19, 1967) (NAVSEAINST 8020 8 AFTO 11A-1-47, DSAM 8220.1).

12 In § 173.88 paragraph (g) is revised to readi

8 173 BB Definition of class B explosives

(g) Explosives power devices. Class B. are devices designed to operate electing apparatus or other mechanisms by means of a propellant explosive. Class B, and differ from explosive powers a devides. Class C, in that they contests

larger or more powerful propellants. The devices must not rupture on function by and must be of a type examined by the Burngwef Explosives and approved by the Associate Director for OF, except as otherwise provided in § 173,51(a)[18] and § 173,66(a).

13, In § 173.92 paragraphs [a)(4) and

(c) are revised to read § 17332 Vet thrust usits (jatq), class B § 17392 Jet thrust usits (jatd), class B explosites rocket molors, class B explosites (graters, jet thrust (jato), class B explosives igniters, rocket motors, class B explosives and starter cartridges, jet engles, class B explosites.

(4 Wooden boxest wooden crates other packagings of approved milital specification which comply with § 173.7(a).

(c) Jet thrust units Class B explosives or rucket motors. Class B explosives may be packaged in the same outside packaging with their septirately packaged igniters (or igniter components), Class A. B. or C. explaines, only when shipped by an for the Department of Defense (DOD) and in accordance with established practices and procedures specified by DOD.

14. In § 173.94 the introductory text of paragraph (a) and paragraph (b) are revised to read!

§ 173.94 Explosive power devices,

(a) Explosive power devices, Class B may not be shipped with igniters assembled therein unless shipped by or for the Department of Delense (DOD) and in accordance with established practices and procedures specified by DOD. Explosive power devices, Class B. must be packed in outside containers complying with the following specifications:

(b) Explosive power devices. Class B

packed in any other manner must be in containers of a type examined by the Bureau of Explosives and approved by the Associate Director for OE.

15. In \$ 173.95 paragraphs (a)[2], (b) a and (c) are revised to seed: § 173.95 | Flocket engines (liquid), class B explosives.

(2) Wooden hoxes of metal.

packagings of approved military specification which comply with

§ 173.7(a). (b) Ropket engines (liquid), Class B explosives, may not be shipped with

igniters of in these seasembles, harress unless supported or let the Department of Defense (DOI) and in accordance, with established practices and procedures are procedures specially by the Department of Defense (DOI) and in accordance with established practices and procedures are passed in the same outside packagen with their separately packagen includes at theirs. Class B explosives when shapped by or for the Department of Defenses (DOD) and in accordance were established practices and procedures specified by DOI.

16 In \$ 72.100 paragraphs (r) he same outside paragraph (r) he same outside paragraphs (r) he accordance were also not only DOI.

\$173,100/ Deficition of teass C explosive

(p) Toy plastic in paper caps for toy pistols in sheats strips rolls, de individual caps must not contain more than an average of twenty-five hundred his of a grain of explosive composition has cap and must be packed in inside sackages constructed of cardboard not less than 0.013 inch in thickness, netal fiot less than 0.013 inch in thickness, not secondwistible plastic not less than 0.015 anch in thickness, or a composite blister package consisting of cardboard not less than 0.013 inch in thickness, which shall provide a complete enclosure and the minimum dimensions of each side or end of such package shall be not less than 18 inch in height. The number of caps in these inside packages shall be limited so that not more than 10 grams of explosives composition shall be packed into one cubic inch of space and not exceeding 17.5 grains of the explosive composition of toy caps shall be packed in any inside 17.5 grains of the explosive composition of toy caps shall be packed in any inside container. These inner containers must be packed in outside containers as

specified in § 173.109.

(r) * * * Any new device, not enumerated in this paragraph, must be examined by the Bureau of Explosives and approved by the Associate Director for OE, before being offered for transportation as Common Fireworks. * * *.

(11) Novelties consisting of two or more devices enumerated in this paragraph when examined by the Bureau of Explosives and approved by the Associate Director for OE.

(u) Toy propellant devices and toy smoke devices consist of small paper or composition tubes or containers containing a small charge of slow burning propellant powder or smoke producing powder. These devices must be so designed that they will neither burst nor produce external flame on functioning.

Ignition elements, if attached, must be of a design examined by the Bureau of Explosives and approved by the Associate Director for OE.

(x) Cigarette loads, trick matches, and trick noise makers, explosive, must be of type examined by the Bureau of Explosives and approved by the Associate Director for OE and are described as follows:

18. In § 173.12 revised to read: \$173.120 Auton tractors, or other described as follows:

(y) Smoke candles, smokepots, smoke grenades, smoke signals, signal flares, hand signal devices, and very signal cartridges are devices designed to produce visible effects for signal purposes. These devices must contain no bursting charges and no more than 200 grams of pyrotechnic composition each (see Note 1), exclusive of smoke composition (see Note 2), unless greater weight of composition is examined by the Bureau of Explosives and approved by the Associate Director for OE.

(aa) Explosive power devices, Class C, are devices designed to drive generators or mechanical apparatus by means of propellant explosives, Class B. The devices consist of a housing with a contained propellant charge and an electric igniter or squib. The devices must be of a type examined by the Bureau of Explosives and approved by the Associate Director for OE for this classification.

(ee) Starter cartridges, jet engine, Class C, consist of a metal, plastic, and/ or rubber case, each containing a pressed cylindrical block of flammable solid material and having in the top of the case a small compartment that encloses an electric squib, small amount of black powder, and/or smokeless powder which constitute an igniter. The starter cartridge is used to activate a mechanical starter for jet engines and must be of a type examined by the Bureau of Explosives and approved by the Associate Director for OE, except as provided in § 173.51(a)(16) and § 173.86(a).

17. In § 173.102 paragraph (a)(2) is revised to read:

§ 173.102 Explosive cable cutters: explosive power devices, class C; explosive release devices, or starter cartridges, jet engine, class C explosives.

(a) * * *

(2) In addition to specification containers prescribed in this section, explosive cable cutters, explosive power devices, Class C, explosive release devices, or starter cartridges, jet engines, Class C may be shipped in strong wooden or metal boxes. Starter cartridges, jet engine, must have igniter wires short-circuited when packed for shipment.

18. In § 173.120 paragraph (c) is revised to read:

§ 173.120 Automobiles, motorcycles, tractors, or other self-propelled vehicles.

(c) Truck bodies or trailers on flat cars. Truck bodies or trailers with automatic heating or refrigerating equipment of the flammable liquid type may be shipped with fuel tanks filled and equipment operating or inoperative, when used for the transportation of other freight and loaded on flat cars as part of a joint rail highway movement, provided the equipment and fuel supply are of a type examined by the Bureau of Explosives and approved by the Associate Director for OE. The heating or refrigerating equipment is considered as carriers' equipment and is not subject to any other requirements of this subchapter.

19. In § 173.124 paragraphs (a)(1) and (a)(2) are revised to read:

§ 173.124 Ethylene oxide.

(a) * * *

(1) Specification 15A, 15B, 15C, or 16A (§§ 178.168, 178.169, 178.170, 178.185 of this subchapter) wooden boxes and Spec. 12B (§ 178.205 of this subchapter) fiberboard boxes with metal inside containers not over 12-ounce capacity each. Each inside container must have a minimum bursting strength of 180 psig as

prepared for shipment and be provide with a safety vent having a minimum diameter of 0.1023 inch and closed with fusible metal having a yield temperature of 157 to 170°F. The safety vent opening shall be hot tinned before filling with fusible metal. Filling shall be such that the container will not be liquid full below 185°F. Each inside container must be completely insulated, except for top closure, with two coats of heat-retardant paint, of a type examined by the Bureau of Explosives and approved by the Associate Director for OE, applied over suitable primer and finished with suitable waterproof paint, or with other equally efficient insulation examined by the Bureau of Explosives and approved by the Associate Director for OE. Not more than 12 inside containers nor more than one layer of containers may be packed in one outside container.

(2) Cylinders as prescribed for any compressed gas, except acetylene, not exceeding 30 gallons nominal water capacity, which meet the following requirements: All cylinders must be seamless or steel welded. Cylinders must be equipped with safety devices of the fusible plug type with threaded straight bore orifice, with yield temperature of 157° to 170°F. having a minimum vent area of 0.0055 square in per pound of water capacity of the container for containers not over 1gallon capacity and 0.0012 square inch per pound of water capacity of the container for all containers over 1-gallon capacity. Each cylinder must be tested for leakage at a pressure of at least 15 psig with an inert gas before each refilling. Filling must be such that the container will not be liquid full at 185°F Pressurizing valves must be provided for all containers over 1 gallon capacity. Eductor tubes must be provided for all containers over 5-gallon capacity. Cylinders having a water capacity in excess of 1 gallon must be insulated with at least three coats of heatretardant paint, of a type examined by the Bureau of Explosives and approved by the Associate Director for OE, applied over suitable primer and finished with suitable waterproof paint; or with other equally efficient insulation examined by the Bureau of Explosives and approved by the Associate Director for OE.

20. In § 173.162 paragraph (h) is revised to read:

§ 173.162 Charcoal.

(h) Charcoal, screenings or ground, crushed, granulated or pulverized charcoal, in bags, when loaded in cars for shipment by rail must be so loaded

that the bags are laid horizontally in the car, and so piled that there will be spaces for efficient air circulation. These spaces must be not less than 4 inches wide. If the bags are not compactly filled and closed so as to avoid free space within, transverse wooden strips must be laid between the bags and extending the full width of the car: these strips should be approximately 2 feet apart vertically and longitudinally. The bags must not be piled closer than 6 inches from the top of the car, and no more than 26,000 pounds of screenings, ground, granulated, crushed, or

pulverized charcoal, shall be loaded in a 36-foot, 6-inch car; 27,000 pounds in a 37foot, 6-inch car; 28,000 pounds in a 38foot, 6-inch car; 29,000 pounds in a 39foot, 6-inch car; 36,000 pounds in a 40foot, 6-inch car; and 40,000 pounds in a 50-foot, 6-inch car. A tight car must be used, and any loose material must be swept up and removed from the doorway of the car before completing the loading.

21. § 173.197a is revised to read:

§ 173.197a Smokeless powder for small

Smokeless powder for small arms in uantities not exceeding 100 pounds net weight transported in one car or motor vehicle may be classed as a flammable solid when examined for this classification by the Bureau of Explosives and approved by the Associate Director for OP. Maximum quantity in any inside packaging must not exceed 8 pounds and inside packagings must be arranged and protected to prevent simultaneous ignition of the contents. The complete package must be a type examined by the Bureau of Explosives and approved by the Associate Director for OE. Each outside package must bear a flammable solid label.

22. In § 173.202 paragraph (a)(1) is revised to read:

§ 173.202 Sodium metal liquid alloy, potassium metal liquid alloy, and sodium potassium liquid alloy.

(1) Specification 15A or 15B (\$\$ 178,168, 178,169 of this subchapter). Wooden boxes with inside metal containers of a type examined by the Bureau of Explosives and approved by the Associate Director for OE. Inside containers must be cushioned with combustible cushioning material. Each ntainer must have been tested ydrostatically to a pressure of not less than 60 pounds per square inch. Closing devices must be protected from injury. Not more than 300 pounds of sodium or

potassium liquid alloy may be shipped in one outside container.

23. ln § 173.218 paragraph (a)(1) is revised to read:

§ 173.218 Isopropyl percarbonate, unstabilized.

(a) * * * (1) Specification 15A, 15B, 15C, 16A, or 19A (§§ 178.168, 178.169, 178.170, 178.185, 178.190 of this subchapter). Wooden boxes, with glass, metal, or earthenware inside containers of not over 2 gallons capacity each which must be maintained at a temperature below 0°F. Shipments are authorized for transportation by private or contract carrier by motor vehicle only.

24. In § 173.225 paragraph (a)(1) is revised to read:

§ 173.225 Phosphorus trisulfide; phosphorus sesquisulfide; phosphorus heptasulfide, and phosphorus pentasulfide.

(1) Specification 15A or 15B [§§ 178.168, 178.169 of this subchapter]. Wooden boxes with metal inside containers hermetically sealed (soldered) or watertight metal cans with screw-top closures.

25. In § 173.237 paragraph (a)(2) is deleted.

§ 173.237 Chlorine dloxide hydrate. frozen; chloric acid.

(a) * * *

(2) [Deleted]

26. In § 173.238 paragraph (a), is revised to read:

§ 173_238 Aircraft rocket engines (commercial) and/or aircraft rocket engine igniters (commercial).

(a) Aircraft rocket engines (commercial) and their igniters may be offered for transportation when of a type examined by the Bureau of Explosives and approved by the Associate Director for OE to be so described and classed, and when packaged as follows:

(1) Specification 15A, 15B, 15E or 16A (§§ 178.168, 178.169, 178.172, 178.185 of this subchapter). Wooden boxes. Igniters must be packaged in sealed metal containers examined by the Bureau of Explosives and approved by the Associate Director for OE and packed in wooden boxes as specified above when shipped separately from the aircraft rocket engines.

(2) Aircraft rocket engines (commercial), when examined by the Bureau of Explosives and approved by the Associate Director for OE may be packed in the same outside shipping container with their separately

packaged igniters. Igniters must be packed in separate sealed metal containers in strong inside containers.

(3) Aircraft rocket engines (commercial) and/or their igniters. packed in any other manner than specified in paragraphs (a) (1) and (2) of this section, must be in containers of a type examined by the Bureau of Explosives and approved by the Associate Director for OE.

27. In § 173.245 paragraph (a)(25) is revised to read:

§ 173.245 Corrosive liquids not specifically provided for.

(25) Specification 12A or 12B [§§ 178.210, 178.205 of this subchapter]. Fiberboard boxes with inside aluminum containers. Aluminum containers must be examined by the Bureau of Explosives and approved by the Associate Director for OE.

28. In § 173.252 paragraph (g)(1) is revised to read:

§ 173.252 Bromine.

(1) Specification 5K or 5M (§§ 178.88, 178.90 of this subchapter). Specification 5K nickel drums of not over 10 gallons capacity each and containing not more than 225 pounds net weight of bromine or Specification 5M monel drums of not over 25 gallons capacity each and containing not more than 600 pounds net weight of bromine. Drums must be of metal at least 14-gauge United States standard throughout and must have chime reinforcement adequate for their protection. All openings must be in one head and closing parts (plug, cap, flange, etc.) must be of the same metal as the drum. One opening not over 2.3 inches in diameter and one opening not over %inch standard pipe size are permitted. Each drum must be completely emptied and dried before reuse and must be equipped with gaskets of a material examined by the Bureau of Explosives and approved by the Associate Director for OE.

29. In § 173.256 paragraph (a)(3) is revised to read:

§ 173.256 Compounds, cleaning, fiquid.

(a) * * *

(3) Specification 22B (§ 178.197 of this subchapter). Plywood drums equipped with molded liner of a type and material examined by the Bureau of Explosives and approved by the Associate Director for OE.

36. In 4 173 260 paragraph (g) is revised to read:

- (8) Electric storage batteries, wet.

 (8) Electric storage batteries, continuing electrolyte or corrust valuations electrolyte or corrust valuations electrolyte or corrust valuations electrolyte or corrust valuations and fattery cells by a pais generator and fatting or assembled with the battery, and which are nonepillable and lealeproof, are excepted from Parts 170-189 of this title when examined by the Bureau of Explosives and approved by the Associate Director for OE.
- 31. In § 173.266 paragraph (1)(2))s revised to read:

- revised to read:

 § 173.268 Hydrogen peroxide solution in water.

 ([] *****

 ([] *****

 (2) Specification MT 350 or MC 312 *

 (§ 175.449 elithescaticapper) Tank molet vehicles (Tanks shall be welfied construction of alamenta nemplying with Alleman section of alamenta nemplying section section and shall be massured as a fusion section and shall be massured as a fusion section and passivaled by alleman section and passivaled for any massured section and passivaled for any massured section and passivaled for a section section section and passivaled for a section section and passivaled for a section section section and passivaled for a section section section and section section

- (f) the second of the second o prohibited.
- 33. bs \$ 173.259 paragraph (b) is revised to read.

§ § 173.269 Perchloric acid.

(b) Coshioning for emboys must be incombustible mineral materials classic wooden strips, hateral cork blocks or subber blocks. The user of lary, excession loss ground cork, or similar materials, whether treated or universed, is prohibited.

- 34. In 5 173 222 paragraph (\$119) is revised to read?

 § 173,272 Subject seed.

 (19) Specification 178 (\$ 178,117 of this subchapter). Motal particle as structs. subchapter). Motal borricle of fluins (single-trip only). Trums equilibred with vented colorine of an experimental type examined by the Haffan of Expenditure and approved by the Associate Director for OE are also sutherized for examined to the also sutherized for examined of 7.7. A peacent to the section of 1.7. A peacent to the
- as in 177 agus passi Rivade in readir

- (b)
 (i) Bitter a religious a less (p) volunte verte a laminative processor and process

- (1) Specification 22 (Seriamo) this is subcharder). Inside metal configurers, equipped with salety relativestics of a type examined by the Buleau of Explosives and approved by the Associate Director for QX and packed in strong wooden or fiber boxes of such design as to protect valves from injury or accidental functioning under conditions in cident to transportation. Pressure in the container may not exceed 85 pairs at 70°R. Each completed metal container filled for shipment must

be heated until content reaches a minimum temperature of 180°F., without evidence of leakegts distortion or other defect. Each pulsate skipping container must be halmly marked "NSIDE" CONTAINERS COMPLY WITH PRESCRIBES SPECIFICATIONS."

37) Int of 12.7 (30) Extra grouph; (d)(1) Ja.
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§ (75.30) Liberary parmittes of compressed seems.

- (d)

 [1] Truck booker or trailers with automatic beating or refrigerating equipment of the six burning type may be action to seek such on the damage and examined by the seek such on the particle and examined by the seek such on the particle with passing the seek such of the see one Burein of the the healing structure become effect and support support and publis
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(d) Specification 105A500W or 105A500W (15-179-100 and 179-101 of this subchapter). Tank cars. Tank must be restencifed 105A500W and be equipped with safety valves of the type and size used on Spec. 105A300W

§§ 179-100 and 179-101 of this ubchapter). Fank car tank must be equipped with approved done fittings and safety devices, and with cook insulation at least 4 inches in thickness. Bach tank car wast be marked. insulation at least 4 inches in thickness. Bech land car beast be marked "HYDRE GYANIC ACID" in accordance with the requirements of \$ 172,330 of this automatic. Written propedures covering details of lank cas apparentations, done fittings and safety devices and marking, landing, handling, expectation and tenting practices shall be examined by the Bureau of Explosives and approved by the Associate Director of CE before any tank carris offered for unsportation of hydrogramic acid. The distribution permitted filling density is 63 percent of the water capacity of the land.

of in 6 (13,83) paragraphs (a)(2) is revised to tead

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serial content of the subcattle of the s failure. Safety valve must be equipped

with an approved stainless steel or platinum frangible disc. Each tank car must be marked "MTROCEN" TETROXUE" in accordance with the requirements of § 172,330 of this requirements of \$ 172,330 of this subchapter? Written procedures covering details of tank ear appurtenances, dome fittings and safety devices, and marking loading, handling, inspection and testing practices, must be examined by the Bureau of Explosives and approved by the Associate Director for OE before any tank car is offered for transportation of natiogen terroside.

42. In \$ 173,366 paragraph (a)(9) is revised to read:

revised to read:

§ 173.366 Arsenie (arsenie trioxide) or arsenie acid (solid).

(a) In addition to specification containers prescribes in this section, arsenic (arsenic trioxide) of arsenic acid (solid) may be shipped when packed in collapsible ribber solitainers, het over 70 cubic feet capacity, of a type examiner by the Buseau of Explosives and approved by the Associate Director for OB. Authorized for carload, truckload of reight container shipments only. only.

43. in § 173.370 paragraph [a](13] is revised to read:

§ 173.370 Charides and charitie infetures dry.

(13) Bulk in strong, water fight, metal portable containers or not over Al cubic feet capacity back and approved by the Associate Director for OK.

44. In § 172385 paragraph (b) and (c) are revised to read: § 173.385 Tear gas grenades fear gas candles, or similar devices.

(b) These articles may not be assembled with or packed in the same compartment with mercanically or manually operated firing, igniting, bursting, or other functioning allocing allocing and the surface of a type of design examined by the fureau of Explosives and approved by the Associate Director for OE.

(d) No shipment of eackages, containing articles under this eaction may be made and a samples thereof have been examined by the Bureau of Explosives, or examined under their supervision, and approved by the Associate Director for OE.

PART 174-CARRIAGE BY BAR

45. In § 174.61 paragraph (b) is revised

§ 174.61 Truck bodies, trailers or freight containers on flatcars.

(b) A truck body, trailer or freight container equipped with automatic heating or refrigerating equipment employing any fuel or article classed as a hazardius material may be loaded and transported on a flatcar if the equipment is of type examined by the Bureau of Explosives and approved by the Associate Director for OE. The truck body, trailer or freight container must be secured on the flatear so that it cannot change posițion during transit.

46. In § 174.81 Note 5 of the table is revised to read;

174.81 Segregation and separation requirements for hazardous materials in rail

Note 5. Simple less powder for small arms assenting not pounds net weight in one that shall be classed as a flammable solid for purposes of transportation when examined for this classification by the Bureau of Explosives and approved by the Associate Director for the

PART 177 GARRIAGE BY PUBLIC HIGHWAY

47. In **§ 177.4**21 paragraph (f) is revised to read.

§ 177.821 Hazardous materials forbidden or limited for transportation.

(f) Smokeless powder for small arms to quantities not exceeding 100 pounds not weight fraisported in one car or motor vehicle may be classed as a flammable solid when examined for this classification by the Bureau of classification by the Bureau of Explosives and approved by the Associate Director for OE. Maximum quantity in any inside packaging must not exceed a pounds and inside packagings must be arranged and protected to prevent simultaneous ignition of the contents. The complete package must be a type examined by the Bureau of Explosives and approved by the Associate Director for OE. Each outside package must bear a flammable solid label. solid label

48. ln § 177,438 paragraph (g) is revised to read:

§ 177,838 Flammable solids and oxidizing materials.

(g) Smokeless powder for small arms in quantities not exceeding 100 pounds net weight transported in one car or motor vehicle may be classed as a flammable solid when examined for this classification by the Bureau of Explosives and approved by the Associate Director for OE. Maximum quantity in any inside packaging must not exceed 8 pounds and inside packagings must be arranged and protected to prevent simultaneous ignition of the contents. The complete package must be a type examined by the Bureau of Explosives and approved by the Associate Director for OE. Each outside packaging must bear a flammable solid label.

49. In § 177.848 Note 5 of the table is revised to read:

§ 177.848 Loading and storage chart of hazardous materials

(a) * * *

Note 5.—Smokeless powder for small arms in quantities not exceeding 100 pounds net weight in one motor vehicle shall be classed as a flammable solid for purposes of transportation when examined for this classification by the Bureau of Explosives and approved by the Associate Director for OE.

Note.—The Materials Transportation Bureau has determined that this final rule will not result in a major economic impact under the terms of Executive Order 12044 and DOT implementing procedures (44 FR 11034) nor require an environmental impact statement under the National Environmenta Policy Act (49 U.S.C. 4321 et seq.). A regulatory evaluation is available in the docket.

Issued in Washington, D.C., on May 7, 1980. L. D. Santman,

Director, Materials Transportation Bureau.
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